

# Environmental Health

## Contact Information

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- Environmental Health (p. 1)
- Graduate Certificate in Environmental Health

See Public Health in the Masters section in this catalog for policies and requirements.

The MPH-Environmental Health (EH) degree provided by the Public Health program offers cross-disciplinary education opportunities and intentional integration of science, technology, engineering, mathematics (STEM), and associated practices. The MPH-EH program is a STEM-Designated degree and accredited curriculum through the National Environmental Health, Science and Protection Accreditation Council (EHAC).

## THE MASTER'S DEGREE

### Advising

Advising in the MPH Program provides an individual approach to the academic and professional development of each student. On admission, each student is assigned an advisor to assist with academic planning from the MPH faculty. Students must prepare an educational plan before registering for courses in order to map out progress through the degree consistent with career and personal goals. Students are not allowed to register until this educational plan is approved.

### Grading Policy

Students must maintain a B (3.0) or better cumulative average during their entire course of study. A maximum of eight hours of C (2.0) grades is applicable to the degree (grades of C- or lower are not accepted), provided that a minimum GPA of 3.0 is reached at time of graduation and an approved Student Petition is on file in the Office of Records and Registration. Courses taken on a CR/NC basis will not count toward the degree. Only pre-approved 400-level courses are permitted for use toward the degree.

NOTE: Students also should refer to the campus policy on Grades Acceptable Toward Master's Degrees section of this catalog.

### Program Learning Outcomes

1. Apply epidemiological methods to settings and situations in public health practice.
2. Select quantitative and qualitative data collection methods appropriate for a given public health context.
3. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming, and software, as appropriate.
4. Interpret results of data analysis for public health research, policy, or practice.

5. Compare the organization, structure, and function of health care, public health, and regulatory systems across national and international settings.
6. Discuss the means by which structural bias, social inequities, and racism undermine health and create challenges to achieving health equity at organizational, community and systemic levels.
7. Assess population needs, assets and capacities that affect communities' health.
8. Apply awareness of cultural values and practices to the design, implementation, or critique of public health policies or programs.
9. Design a population-based policy, program, project or intervention.
10. Explain basic principles and tools of budget and resource management.
11. Select methods to evaluate public health programs.
12. Discuss the policy-making process, including the roles of ethics and evidence.
13. Propose strategies to identify relevant communities and individuals and build coalitions and partnerships for influencing public health outcomes.
14. Advocate for political, social or economic policies and programs that will improve health in diverse populations.
15. Evaluate policies for their impact on public health and health equity.
16. Apply leadership and/or management principles to address a relevant issue.
17. Apply negotiation and mediation skills to address organizational or community challenges.
18. Select communication strategies for different audiences and sectors.
19. Communicate audience-appropriate (i.e., non-academic, non-peer audience) public health content, both in writing and through oral presentation.
20. Describe the importance of cultural humility in communicating public health content.
21. Integrate perspectives from other sectors and/or professions to promote and advance population health.
22. Apply a systems thinking tool to visually represent a public health issue in a format other than standard narrative.

The MPH-EH requires a minimum of 48 credit hours. The MPH-EH course work is comprised of 32 hours of core course work, 12 hours of concentration-specific core courses and 4 hours of elective course work for a total of 48 credit hours. The closure requirement for the MPH-EH will be a comprehensive examination.

## Requirements

### Core Courses

MPH 501	Introduction to Public Health	4
MPH 503	Biostatistics	4
MPH 506	Research Methods in Public Health	4
MPH 511	Epidemiology	4
MPH 521	Introduction to Environmental Health	4
MPH 531	Public Health Policy	4
MPH 561	Public Health Education	4
MPH 579	Comprehensive Examination	0
MPH 581	Internship <sup>1</sup>	4

### Major Specific Core

MPH 449	Environmental Toxicology	4
MPH 526	Risk Management and Communication	4
MPH 527	Environmental Risk Assessment	4
<b>Elective (Choose 1)</b>		<b>4</b>
ENS 485	Environmental Policies: Water Quality	
MPH 584	Air and Water Quality	
MPH 586	Solid and Hazardous Waste	
MPH 587	Food Safety Practice	
MPH 588	Occupational Safety and Health	
<b>Total Hours</b>		<b>48</b>

<sup>1</sup> Students may submit a Student Petition to use PAD 561 as one hour toward the internship requirement.

## Master's Closure

Students in all degree programs offered through the MPH program take a comprehensive written examination based on a case study with questions designed to test students' ability to integrate the knowledge and skills they have gained from the curriculum. MPH students complete an Integrative Learning Experience (i.e., MPH comprehensive exam) that demonstrates syntheses of foundational and concentration competencies designed by the Council of Education for Public Health.

A student must complete all core courses (except the internship) prior to taking the comprehensive exam, but may take the exam concurrently with electives or the internship during the last semester of study. When students need to take the comprehensive exam to graduate, the students must complete the comprehensive exam eligibility survey before the end of Week 3 of each semester except the summer semester. The student must successfully complete the exam within one year after completing course work for the degree. Students who take MPH 579 and do not pass, must enroll in MPH 583 (zero credit hour, one billable credit hour) each regular semester (fall/spring) until they pass the exam. Students must pass this exam within one year of completing course work with a maximum of three consecutive attempts.

## Graduate Certificates

- Graduate Certificate in Environmental Health

## Online

- Graduate Certificate in Environmental Health